

REMARKS

Claims 1 and 20 have been amended to clarify the subject matter regarded as the invention. Claim 9 has been cancelled. Claims 1-8, 10-14 and 20 are pending.

The Examiner has rejected claims 1, 10, 12, 20, 23, and 24 under 35 U.S.C. 103(a) as being unpatentable over Marshall in view of Muratani and further in view of Chang.

The rejection is respectfully traversed. With respect to claim 1, none of Marshall, Muratani, or Chang discloses “summing the self correlations, including adjusting the sign of each of the self correlations according to a known sequence”, as recited in claim 1. Support for the amendment to claims 1 and 20 may be found, without limitation, in the above-captioned application at Figures 4 and 5, page 9, lines 10-13, and claim 9.

Bohnke (Figures 2 and 6, paragraphs 12 and 46) teaches cross correlating an incoming signal $y(i)$ with a complex conjugate of a reference symbol S , including multiplying each sample of $y(i)$ with each sample of the complex conjugate of S . Multiplying a sample of an incoming signal with a sample of a reference symbol is different from summing the *self correlations*, including adjusting *the sign* of each of the self correlations according to a known sequence.

Chang (Figure 2 and paragraph 16) teaches exclusive-ORing received data and a Barker code, where one bit period in the received data corresponds to 11 bits in the Barker code. Thus for each input bit, 11 bits are output. Exclusive-ORing received data with a Barker code to obtain multiple bits per input bit is different from *summing the self correlations*, including adjusting *the sign* of each of the self correlations according to a known sequence.

As such, claim 1 is believed to be allowable.

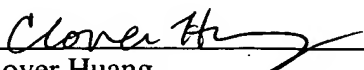
Claims 2-8 and 10-14 depend from claim 1 and are believed to be allowable for the same reasons described above. Claim 20 recites a system for carrying out the method of claim 1. Therefore, it is believed that claim 20 is also allowable.

The foregoing amendments are not to be taken as an admission of unpatentability of any of the claims prior to the amendments.

Reconsideration of the application and allowance of all claims are respectfully requested based on the preceding remarks. If at any time the Examiner believes that an interview would be helpful, please contact the undersigned.

Respectfully submitted,

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